

## CERAMIC ASSEMBLY WITH A STABILIZER LAYER

### ABSTRACT

In one embodiment, the method of producing a ceramic assembly includes: disposing an electrode precursor on an electrolyte precursor having an electrolyte sintering shrinkage, disposing a stabilizer precursor having a stabilizer sintering shrinkage on the electrode precursor on a side opposite the electrolyte precursor to form a precursor assembly, and sintering the precursor assembly to form the ceramic assembly comprising a stabilizer layer, electrode, and electrolyte. The difference between the electrolyte sintering shrinkage and the stabilizer sintering shrinkage is less than or equal to  $\pm 1\%$  and a surface of the ceramic assembly has less than or equal to about 5.0 degrees camber, as measured from the horizontal plane.